

FIG. 2A

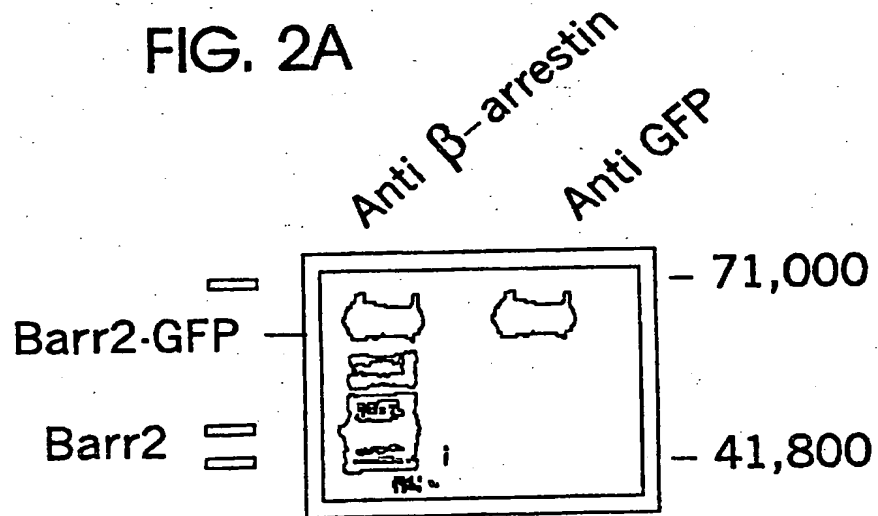
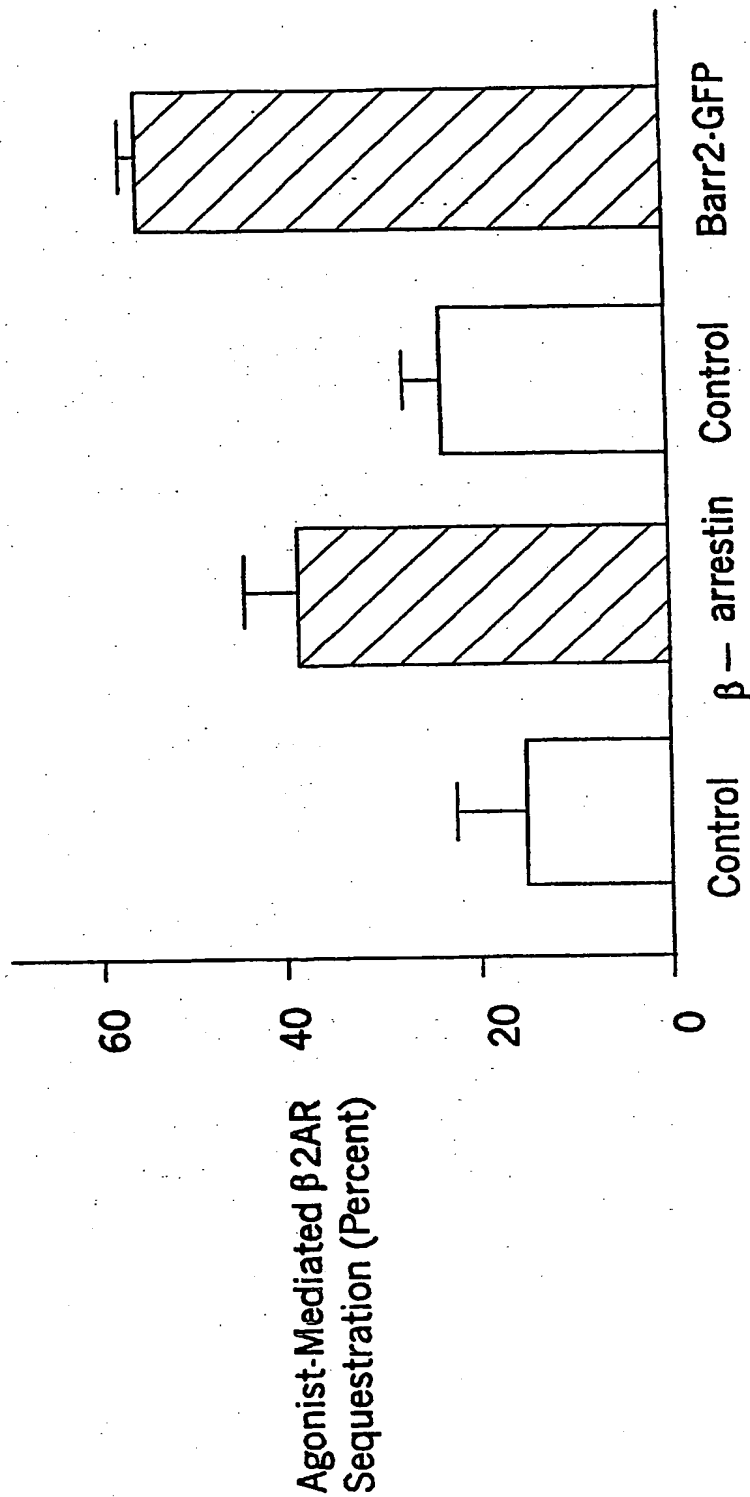


FIG. 2B



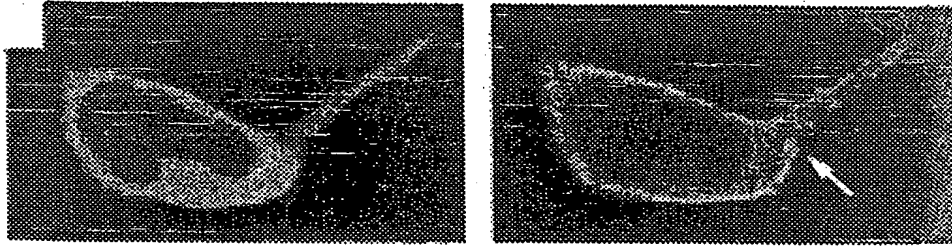


FIG.3A

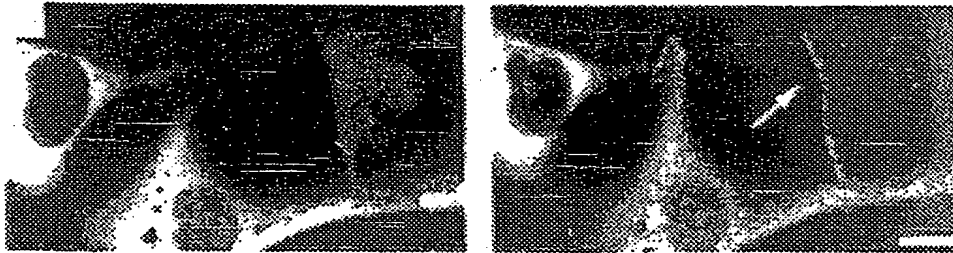


FIG.3B

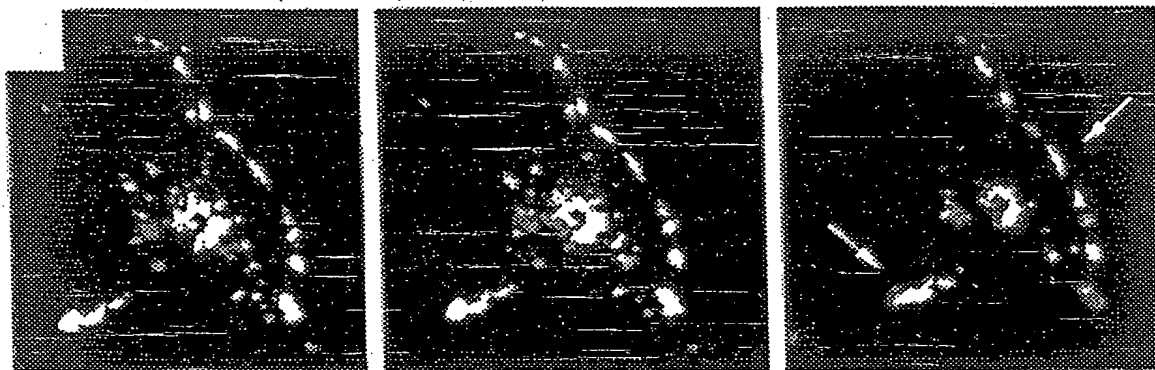


FIG.4A

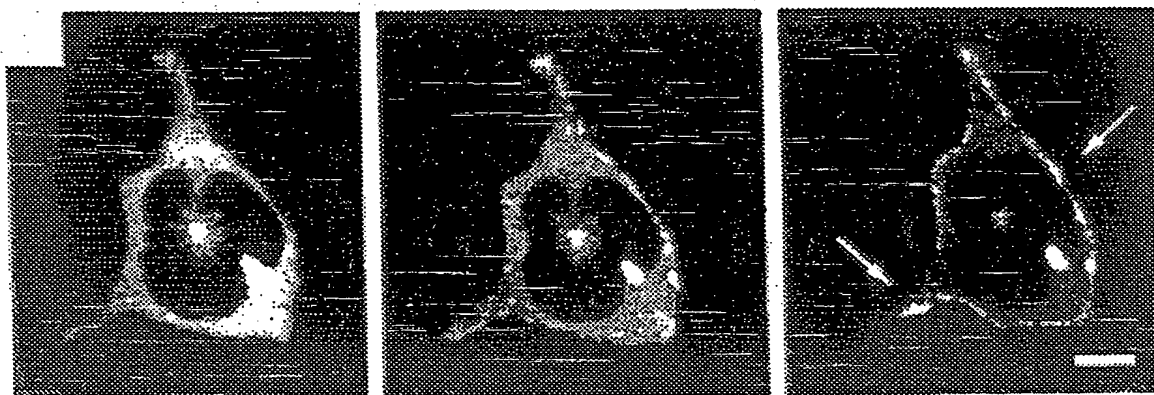
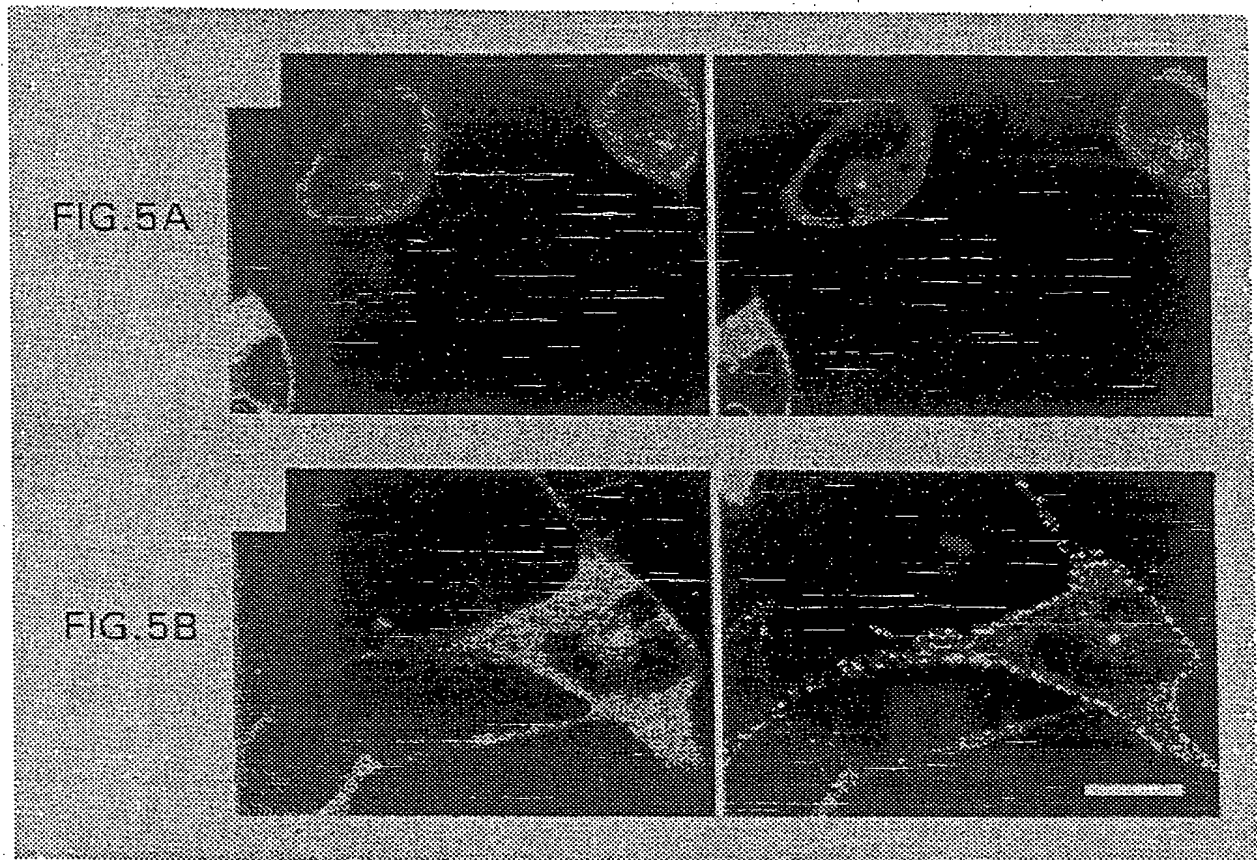


FIG.4B



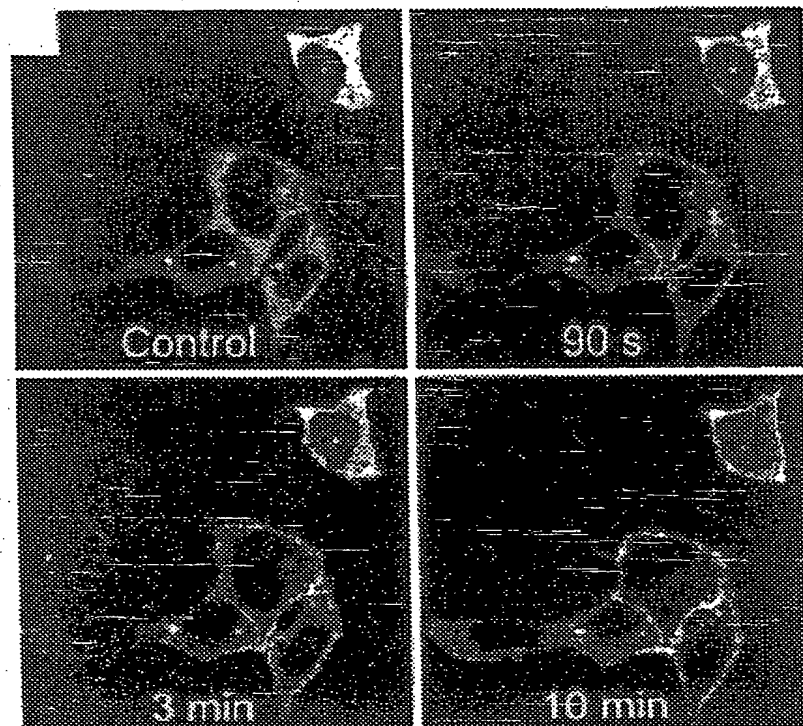


FIG.6A

FIG. 6B

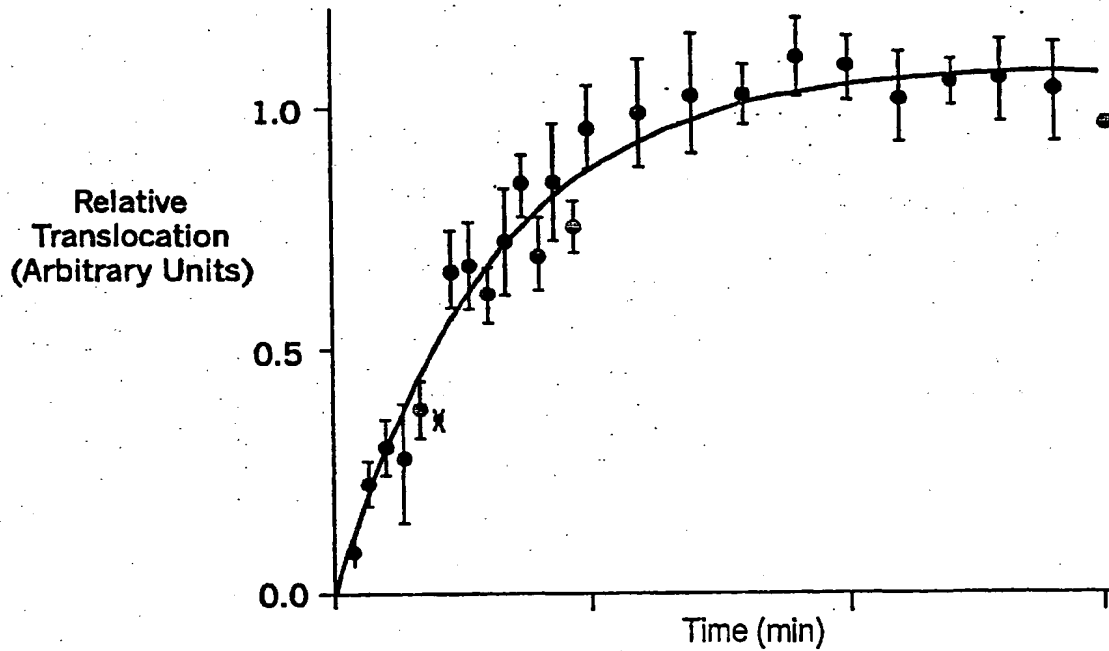
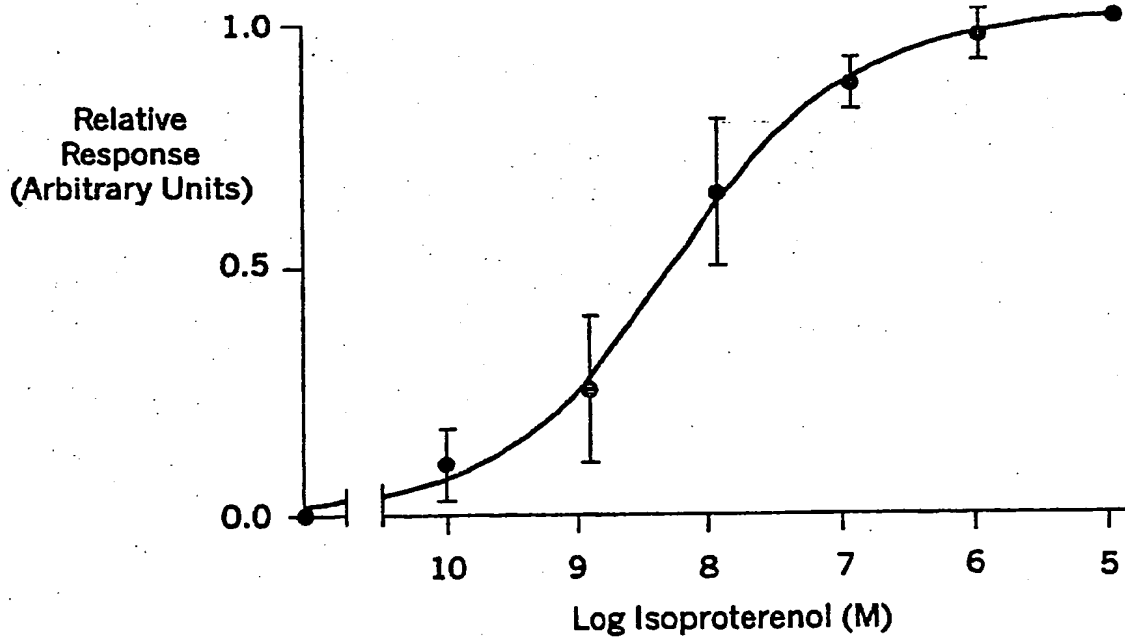


FIG. 6D



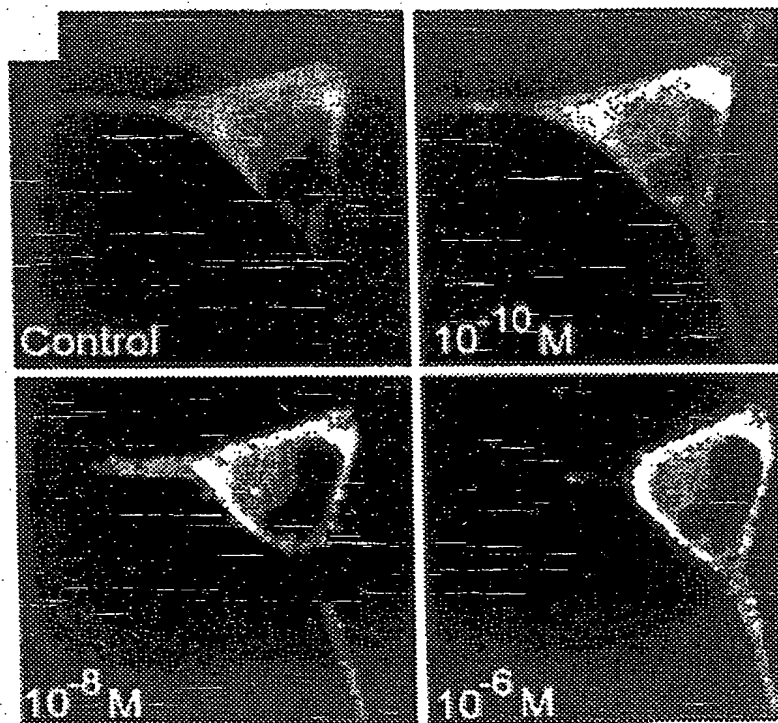


FIG.6C

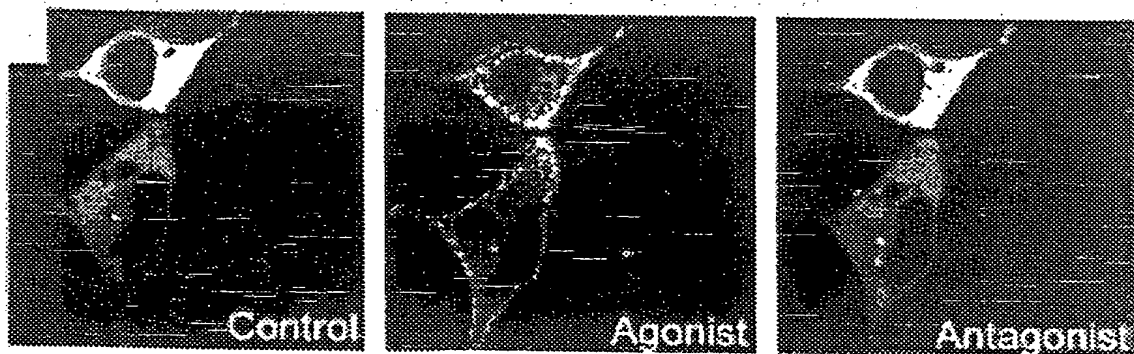


FIG. 6E

β -Arrestin 2 KO Mice

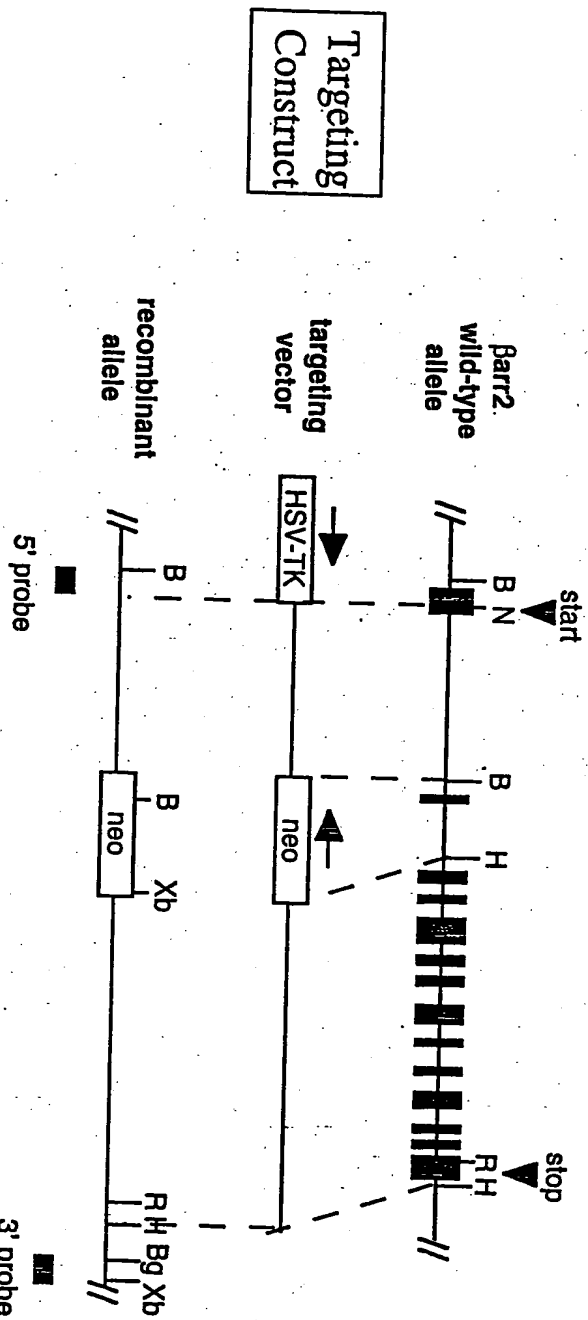


FIG. 7A

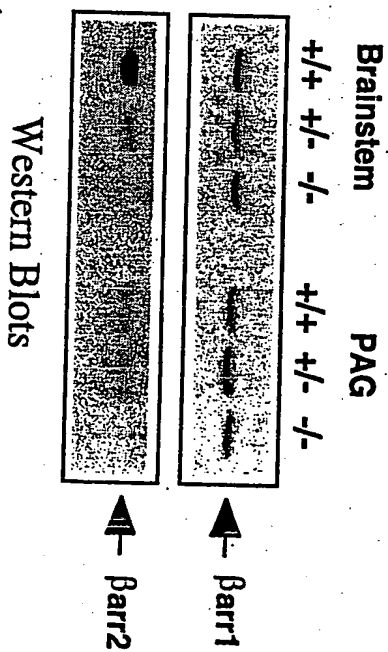
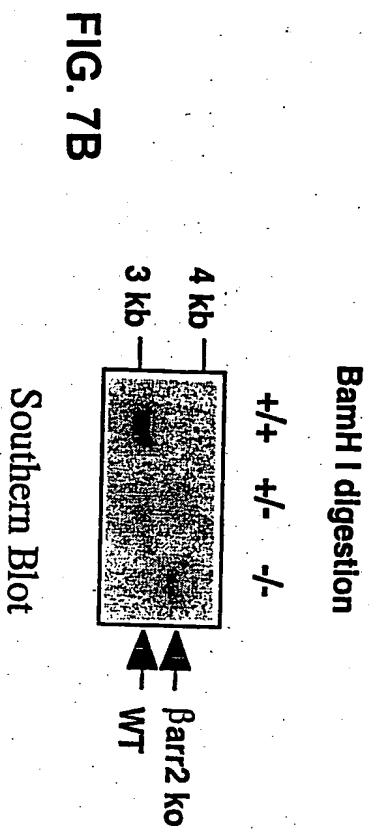


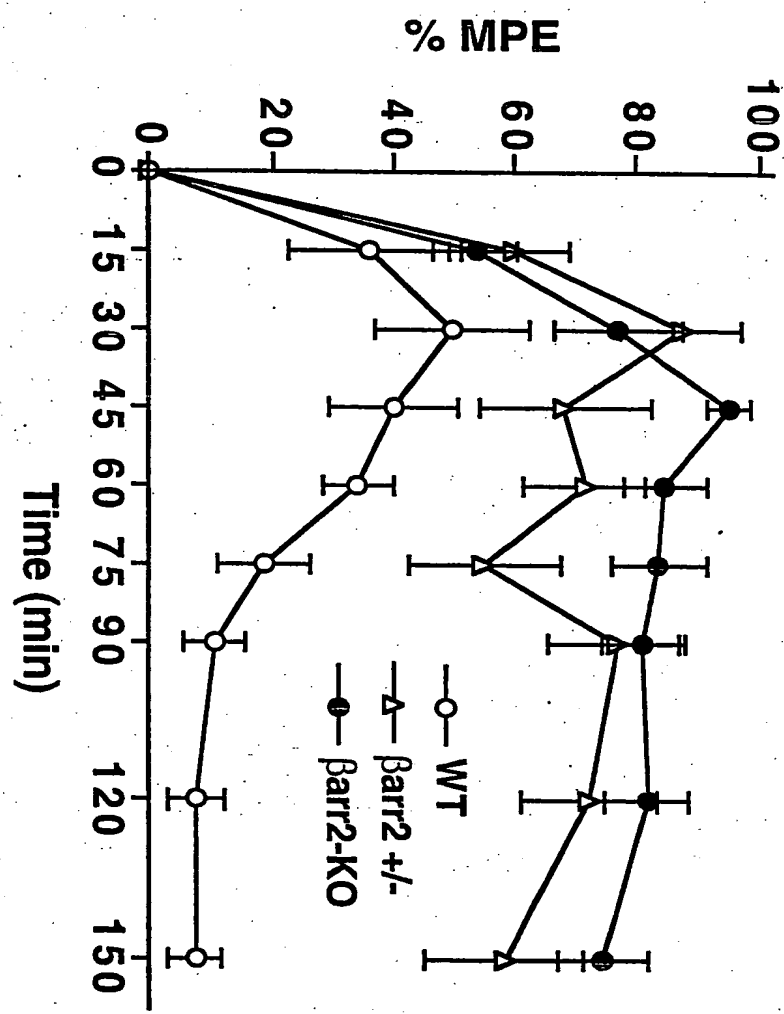
FIG. 7C

10/14

09772644, 013001

Morphine-Induced Antinociception

FIG. 8



Hotplate (56°C, 30 sec cutoff) paw-withdrawal latency after morphine (10mg/kg, s.c.)

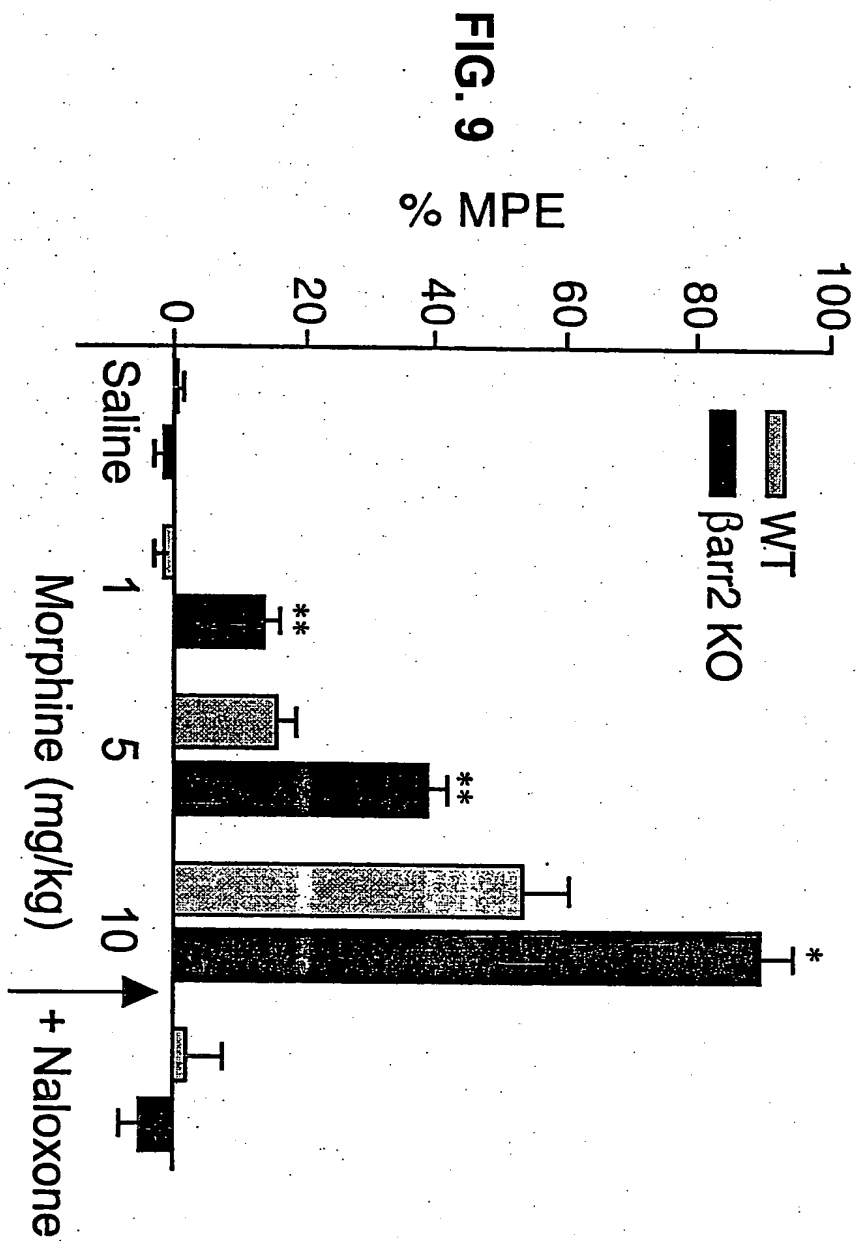
$$\% \text{ Maximum possible effect (MPE)} = 100\% \times \frac{(\text{Response time} - \text{Basal time})}{(30 \text{ sec} - \text{Basal time})}$$

11/14

(30 sec - Basal time)

09772644, 013001

Morphine-Induced Antinociception



Hotplate (56°C, 30 sec cutoff) paw-withdrawal latency after morphine (30 min, s.c.) and naloxone (2.5 mg/kg, 10 min, s.c.).

12/14

09772644, 013001

Morphine-Induced Hypothermia

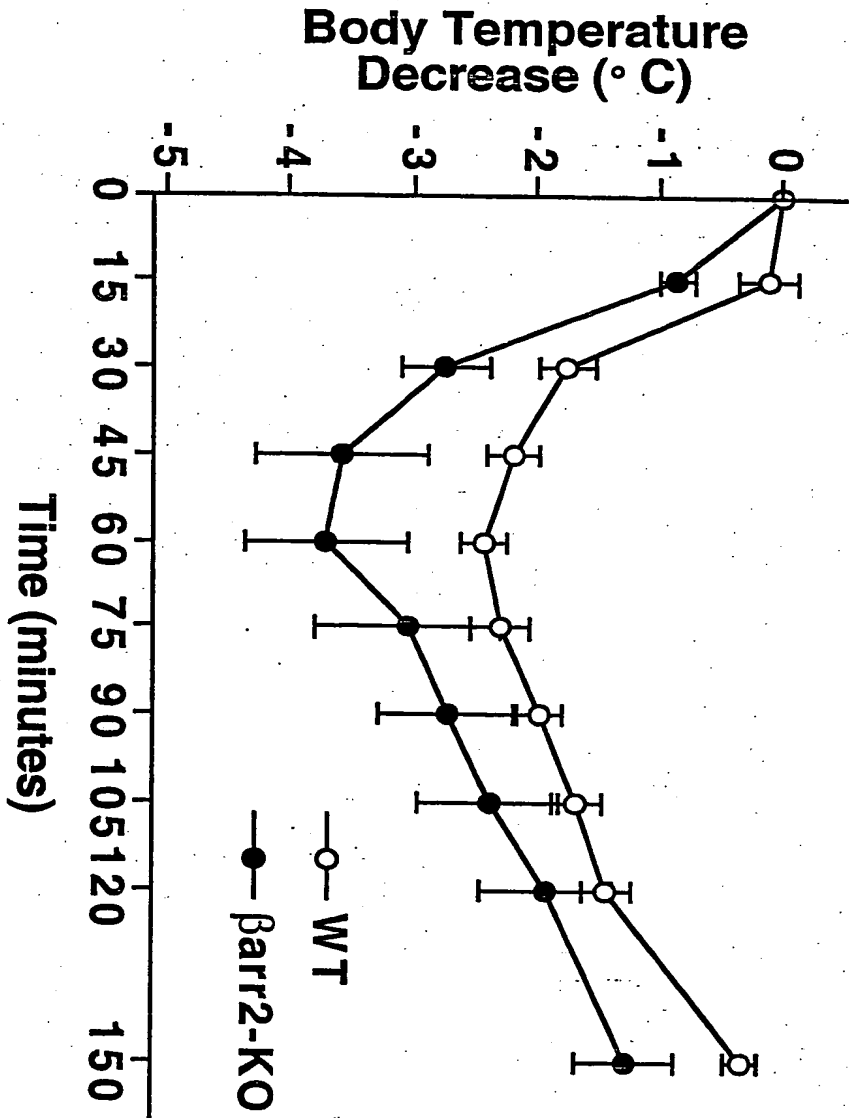


FIG. 10

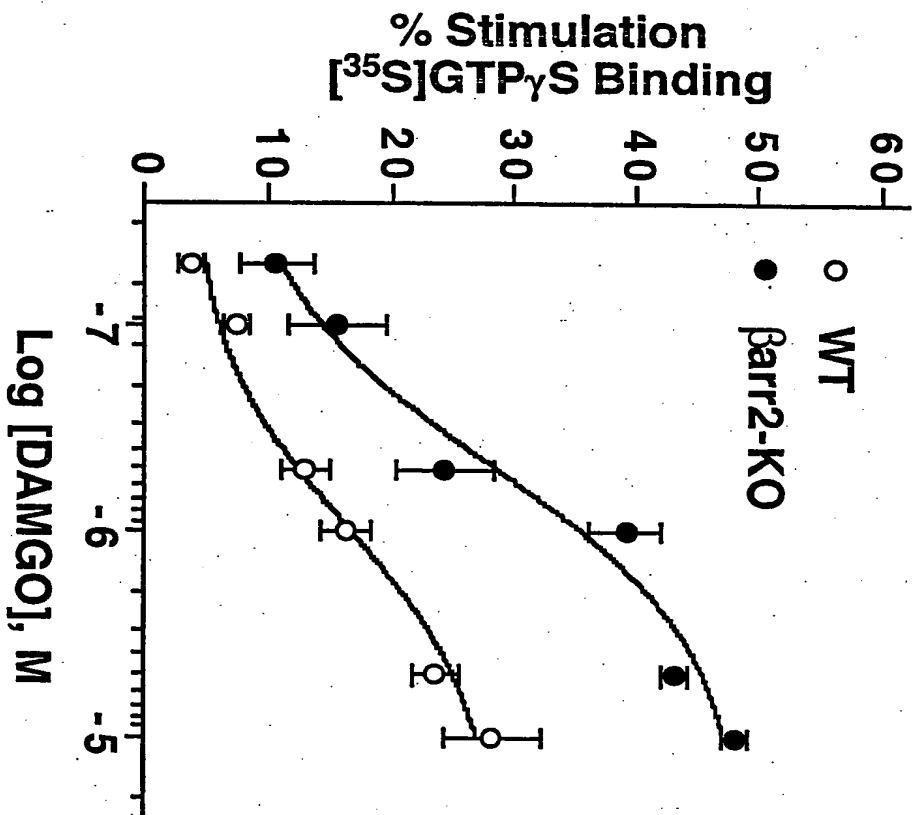
Rectal temperature after morphine (10mg/kg, s.c.)

13/14

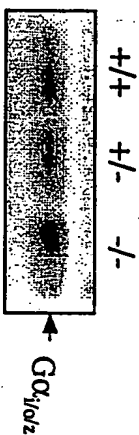
09772644, 013001

[³⁵S]GTP_γS Binding in Periaqueductal Gray Membranes

FIG. 11



G $\alpha_{i/o/z}$ Protein levels
in PAG membranes



14/14

09772644.013001